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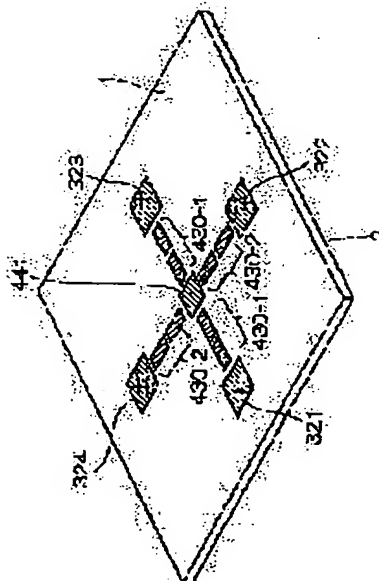
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## (54) MULTI-BEAM ANTENNA

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a low-cost multi-beam antenna which can avoid increasing antenna size even when the number of sectors increases.

SOLUTION: The multi-beam antenna is equipped with two antenna arrays comprising both-ends parasitic elements 321 and 323 (322 and 324) and parasitic elements 430-1 (430-2) and 441 which are electrically smaller than the parasitic element, and the antenna element arrays have all the parasitic elements on rays from feed elements as start points and are so arranged that all the rays cross one another without being completely included in any other ray, so that the two antenna element arrays share the parasitic element 441. The feed points (feed elements 321 to 324) are switched to realize a multi-beam antenna with four beams.



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